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#3   (data object orientation<IN>metadata)

#4   (data fragment and (ID or identification or number)<IN>metadata)

#5   ((incomplete object) and cache<IN>metadata)

#6   ((exceed* or over* or pass* or above) and threshold<IN>metadata)

#7   ((hash or XOR) and transaction<IN>metadata)

#8   (((client and server*)<in>metadata)) <AND> ((data object<IN>metadata))

#9   ((((client and server*)<in>metadata)) <AND> ((data object<IN>metadata)))
        <AND> (((exceed* or over* or pass* or above) and threshold<IN>metadata))

#10   ((((client and server*)<in>metadata)) <AND> ((data object<IN>metadata)))
        <AND> (((incomplete object) and cache<IN>metadata))

#11   ((((client and server*)<in>metadata)) <AND> ((data object<IN>metadata)))
        <AND> ((data fragment and (ID or identification or number)<IN>metadata))

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EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	24372744	@ad<"20030718"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/06/25 15:08
L2	48	(James near4 Challenger).in.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/06/25 15:11
L3	17	(Louis near2 Degenaro).in.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/06/25 15:11
L4	18	(Robert near2 Filepp).in.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/06/25 15:11
L5	42	(Arun near2 Kwangil near2 Iyengar).in.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/06/25 15:11
L6	13	(Richard near2 Pervin near2 King).in.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/06/25 15:11
L7	1	L2 and L3 and L4 and L5 and L6	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/06/25 15:11
L8	29577	"711"/$.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/06/25 15:11
L9	6547	"709"/203.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/06/25 15:11

L10	2	(incomplete adj version) near3 object$2	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/06/25 15:12
L11	143861	client and server	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/06/25 15:12
L12	32299	data near2 construct$4	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/06/25 15:12
L13	314	fragment near2 identifier	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/06/25 15:12
L14	5619	fragment near2 (identifier or ID)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB'	OR	OFF	2006/06/25 15:12
L15	86280	(data or object) adj2 position	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/06/25 15:12
L16	359	(incomplete near2 object$2)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/06/25 15:12
L17	143861	client and server	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/06/25 15:12
L18	32299	data near2 construct$4	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/06/25 15:19
L19	4351	L17 and L18	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/06/25 15:12

L20	359	(incomplete near2 object$2)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/06/25 15:12
L21	4351	L17 and L18	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/06/25 15:12
L22	1	L21 and L20	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/06/25 15:12
L23	1	L21 and L20	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/06/25 15:12
L24	29577	"711"/$.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/06/25 15:12
L25	6547	"709"/203.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/06/25 15:12
L26	35848	L24 or L25	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/06/25 15:12
L27	35848	L24 or L25	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/06/25 15:12
L28	33	L27 and L20	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/06/25 15:12
L29	3	12 and 28	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/06/25 15:19

L30	3	20 and 29	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/06/25 15:19

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1 **Client-server computing in mobile environments**
Jin Jing, Abdelsalam Sumi Helal, Ahmed Elmagarmid
June 1999 **ACM Computing Surveys (CSUR)**, Volume 31 Issue 2
Publisher: ACM Press

Full text available: 📄 pdf(233.31 KB)   Additional Information: full citation, abstract, references, citings, index terms, review

Recent advances in wireless data networking and portable information appliances have engendered a new paradigm of computing, called mobile computing, in which users carrying portable devices have access to data and information services regardless of their physical location or movement behavior. In the meantime, research addressing information access in mobile environments has proliferated. In this survey, we provide a concrete framework and categorization of the various way ...

Keywords: application adaptation, cache invalidation, caching, client/server, data dissemination, disconnected operation, mobile applications, mobile client/server, mobile compuing, mobile data, mobility awareness, survey, system application

2 **File servers for network-based distributed systems**
Liba Svobodova
December 1984 **ACM Computing Surveys (CSUR)**, Volume 16 Issue 4
Publisher: ACM Press

Full text available: 📄 pdf(4.23 MB)   Additional Information: full citation, references, citings, index terms, review

3 **A structural view of the Cedar programming environment**
Daniel C. Swinehart, Polle T. Zellweger, Richard J. Beach, Robert B. Hagmann
August 1986 **ACM Transactions on Programming Languages and Systems (TOPLAS)**, Volume 8 Issue 4
Publisher: ACM Press

Full text available: 📄 pdf(6.32 MB)   Additional Information: full citation, abstract, references, citings, index terms

This paper presents an overview of the Cedar programming environment, focusing on its overall structure—that is, the major components of Cedar and the way they are organized.

Cedar supports the development of programs written in a single programming language, also called Cedar. Its primary purpose is to increase the productivity of programmers whose activities include experimental programming and the development of prototype software systems for a high-performance personal computer. T ...

4 Distributed systems - programming and management: On remote procedure call
Patrícia Gomes Soares
November 1992 **Proceedings of the 1992 conference of the Centre for Advanced Studies on Collaborative research - Volume 2**
Publisher: IBM Press
Full text available: .pdf(4.52 MB)   Additional Information: full citation, abstract, references, citings

The Remote Procedure Call (RPC) paradigm is reviewed. The concept is described, along with the backbone structure of the mechanisms that support it. An overview of works in supporting these mechanisms is discussed. Extensions to the paradigm that have been proposed to enlarge its suitability, are studied. The main contributions of this paper are a standard view and classification of RPC mechanisms according to different perspectives, and a snapshot of the paradigm in use today and of goals for t ...

5 The family of concurrent logic programming languages
Ehud Shapiro
September 1989 **ACM Computing Surveys (CSUR)**, Volume 21 Issue 3
Publisher: ACM Press
Full text available: .pdf(9.62 MB)   Additional Information: full citation, abstract, references, citings, index terms

Concurrent logic languages are high-level programming languages for parallel and distributed systems that offer a wide range of both known and novel concurrent programming techniques. Being logic programming languages, they preserve many advantages of the abstract logic programming model, including the logical reading of programs and computations, the convenience of representing data structures with logical terms and manipulating them using unification, and the amenability to metaprogrammin ...

6 Middleware performance analysis: Performance monitoring of java applications
M. Harkema, D. Quartel, B. M. M. Gijsen, R. D. van der Mei
July 2002 **Proceedings of the 3rd international workshop on Software and performance WOSP '02**
Publisher: ACM Press
Full text available: .pdf(219.69 KB)   Additional Information: full citation, abstract, references, citings, index terms

Over the past few years, Java has evolved into a mature platform for developing enterprise applications. A critical factor for the commercial success of these applications is end-to-end performance, e.g., in terms of response times, throughput and availability. This raises the need for the development, validation and analysis of performance models to predict performance metrics of interest. To develop and validate performance models, insight in the execution behavior of the application is essent ...

Keywords: performance measurement and monitoring of java applications

7 OceanStore: an architecture for global-scale persistent storage
John Kubiatowicz, David Bindel, Yan Chen, Steven Czerwinski, Patrick Eaton, Dennis Geels, Ramakrishna Gummadi, Sean Rhea, Hakim Weatherspoon, Chris Wells, Ben Zhao
November 2000 **ACM SIGARCH Computer Architecture News , ACM SIGOPS Operating Systems Review , Proceedings of the ninth international conference**

on Architectural support for programming languages and operating systems ASPLOS-IX, Volume 28 , 34 Issue 5 , 5

Publisher: ACM Press

Full text available: pdf(166.53 KB)   Additional Information: full citation, abstract, references, citings, index terms

OceanStore is a utility infrastructure designed to span the globe and provide continuous access to persistent information. Since this infrastructure is comprised of untrusted servers, data is protected through redundancy and cryptographic techniques. To improve performance, data is allowed to be cached anywhere, anytime. Additionally, monitoring of usage patterns allows adaptation to regional outages and denial of service attacks; monitoring also enhances performance through pro-active movement ...

8 OceanStore: an architecture for global-scale persistent storage

John Kubiatowicz, David Bindel, Yan Chen, Steven Czerwinski, Patrick Eaton, Dennis Geels, Ramakrishan Gummadi, Sean Rhea, Hakim Weatherspoon, Westley Weimer, Chris Wells, Ben Zhao

November 2000 **ACM SIGPLAN Notices**, Volume 35 Issue 11

Publisher: ACM Press

Full text available: pdf(1.47 MB)   Additional Information: full citation, abstract, references, index terms

OceanStore is a utility infrastructure designed to span the globe and provide continuous access to persistent information. Since this infrastructure is comprised of untrusted servers, data is protected through redundancy and cryptographic techniques. To improve performance, data is allowed to be cached anywhere, anytime. Additionally, monitoring of usage patterns allows adaptation to regional outages and denial of service attacks; monitoring also enhances performance through pro-active movement ...

9 Introducing Ada 9X

John Barnes

November 1993 **ACM SIGAda Ada Letters**, Volume XIII Issue 6

Publisher: ACM Press

Full text available: pdf(4.39 MB)   Additional Information: full citation, citings, index terms

10 Special issue on prototypes of deductive database systems: The CORAL deductive system

Raghu Ramakrishnan, Divesh Srivastava, S. Sudarshan, Praveen Seshadri

April 1994 **The VLDB Journal — The International Journal on Very Large Data Bases**, Volume 3 Issue 2

Publisher: Springer-Verlag New York, Inc.

Full text available: pdf(3.03 MB)   Additional Information: full citation, abstract, references, citings

CORAL is a deductive system that supports a rich declarative language, and an interface to C++, which allows for a combination of declarative and imperative programming. A CORAL declarative program can be organized as a collection of interacting modules. CORAL supports a wide range of evaluation strategies, and automatically chooses an efficient strategy for each module in the program. Users can guide query optimization by selecting from a wide range of control choices. The CORAL system provides ...

Keywords: deductive database, logic programming system, query language

11 Interposed request routing for scalable network storage

February 2002 **ACM Transactions on Computer Systems (TOCS)**, Volume 20 Issue 1

Publisher: ACM Press

Full text available: 📄 pdf(363.12 KB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index terms</u>, <u>review</u>

This paper explores interposed request routing in Slice, a new storage system architecture for high-speed networks incorporating network-attached block storage. Slice interposes a request switching filter---called a μ*proxy*---along each client's network path to the storage service (e.g., in a network adapter or switch). The μproxy intercepts request traffic and distributes it across a server ensemble. We propose request routing schemes for I/O and file service traffic, and explore th ...

Keywords: Content switch, file server, network file system, network storage, request redirection, service virtualization

12 Programming languages for distributed computing systems   ■

Henri E. Bal, Jennifer G. Steiner, Andrew S. Tanenbaum
September 1989 **ACM Computing Surveys (CSUR)**, Volume 21 Issue 3
Publisher: ACM Press

Full text available: 📄 pdf(6.50 MB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index terms</u>, <u>review</u>

When distributed systems first appeared, they were programmed in traditional sequential languages, usually with the addition of a few library procedures for sending and receiving messages. As distributed applications became more commonplace and more sophisticated, this ad hoc approach became less satisfactory. Researchers all over the world began designing new programming languages specifically for implementing distributed applications. These languages and their history, their underlying pr ...

13 Higher-order distributed objects   ■

Henry Cejtin, Suresh Jagannathan, Richard Kelsey
September 1995 **ACM Transactions on Programming Languages and Systems (TOPLAS)**, Volume 17 Issue 5
Publisher: ACM Press

Full text available: 📄 pdf(2.33 MB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index terms</u>, <u>review</u>

We describe a distributed implementation of Scheme that permits efficient transmission of higher-order objects such as closures and continuations. The integration of distributed communication facilities within a higher-order programming language engenders a number of new abstractions and paradigms for distributed computing. Among these are user-specified load-balancing and migration policies for threads, incrementally linked distributed computations, and parameterized client-server applicat ...

Keywords: concurrency, continuations, higher-order languages, message-passing

14 Rover: a toolkit for mobile information access   ■

A. D. Joseph, A. F. de Lespinasse, J. A. Tauber, D. K. Gifford, M. F. Kaashoek
December 1995 **ACM SIGOPS Operating Systems Review , Proceedings of the fifteenth ACM symposium on Operating systems principles SOSP '95**, Volume 29 Issue 5
Publisher: ACM Press

Full text available: 📄 pdf(2.18 MB)   Additional Information: <u>full citation</u>, <u>references</u>, <u>citings</u>, <u>index terms</u>

15 Special issue: AI in engineering   ■

D. Sriram, R. Joobbani

April 1985 **ACM SIGART Bulletin**, Issue 92
Publisher: ACM Press
Full text available: pdf(8.79 MB)   Additional Information: full citation, abstract

> The papers in this special issue were compiled from responses to the announcement in the July 1984 issue of the SIGART newsletter and notices posted over the ARPAnet. The interest being shown in this area is reflected in the sixty papers received from over six countries. About half the papers were received over the computer network.

16 A survey of peer-to-peer content distribution technologies
Stephanos Androutsellis-Theotokis, Diomidis Spinellis
December 2004 **ACM Computing Surveys (CSUR)**, Volume 36 Issue 4
Publisher: ACM Press
Full text available: pdf(517.77 KB)   Additional Information: full citation, abstract, references, index terms

> Distributed computer architectures labeled "peer-to-peer" are designed for the sharing of computer resources (content, storage, CPU cycles) by direct exchange, rather than requiring the intermediation or support of a centralized server or authority. Peer-to-peer architectures are characterized by their ability to adapt to failures and accommodate transient populations of nodes while maintaining acceptable connectivity and performance.Content distribution is an important peer-to-peer application ...

> **Keywords**: Content distribution, DHT, DOLR, grid computing, p2p, peer-to-peer

17 Software process modeling and execution within virtual environments
John C. Doppke, Dennis Heimbigner, Alexander L. Wolf
January 1998 **ACM Transactions on Software Engineering and Methodology (TOSEM)**, Volume 7 Issue 1
Publisher: ACM Press
Full text available: pdf(232.51 KB)   Additional Information: full citation, abstract, references, citings, index terms

> In the past, multiuser virtual environments have been developed as venues for entertainment and social interaction. Recent research focuses instead on their utility in carrying out work in the real world. This research has identified the importance of a mapping between the real and the virtual that permits the representation of real tasks in the virtual environment. We investigate the use of virtual environments—in particular, MUDs (Multi-User Dimensions)—in the domain of softwa ...

> **Keywords**: MOO, MUD, PROMO, software process, tools, virtual environments

18 Scalable and fault-tolerant support for variable bit-rate data in the exedra streaming server
Stergios V. Anastasiadis, Kenneth C. Sevcik, Michael Stumm
November 2005 **ACM Transactions on Storage (TOS)**, Volume 1 Issue 4
Publisher: ACM Press
Full text available: pdf(1.01 MB)   Additional Information: full citation, abstract, references, index terms

> We describe the design and implementation of the Exedra continuous media server, and experimentally evaluate alternative resource management policies using a prototype system that we built. Exedra has been designed to provide scalable and efficient support for variable bit-rate media streams whose compression efficiency leads to reduced storage space and bandwidth requirements in comparison to constant bit-rate streams of equivalent quality. We examine alternative disk striping policies, and qua ...

Keywords: Content distribution, multimedia compression

19 Frontmatter (TOC, Letters, Election results, Software Reliability Resources!, Computing Curricula 2004 and the Software Engineering Volume SE2004, Software Reuse Research, ICSE 2005 Forward)
July 2005 **ACM SIGSOFT Software Engineering Notes**, Volume 30 Issue 4
Publisher: ACM Press
Full text available: ┌┐pdf(6.19 MB)   Additional Information: full citation, index terms

20 The evolution of Coda
M. Satyanarayanan
May 2002 **ACM Transactions on Computer Systems (TOCS)**, Volume 20 Issue 2
Publisher: ACM Press
Full text available: ┌┐pdf(441.35 KB)   Additional Information: full citation, abstract, references, citings, index terms

Failure-resilient, scalable, and secure read-write access to shared information by mobile and static users over wireless and wired networks is a fundamental computing challenge. In this article, we describe how the Coda file system has evolved to meet this challenge through the development of mechanisms for server replication, disconnected operation, adaptive use of weak connectivity, isolation-only transactions, translucent caching, and opportunistic exploitation of hardware surrogates. For eac ...

Keywords: Adaptation, Linux, UNIX, Windows, caching, conflict resolution, continuous data access, data staging, disaster recovery, disconnected operation, failure, high availability, hoarding, intermittent networks, isolation-only transactions, low-bandwidth networks, mobile computing, optimistic replica control, server replication, translucent cache management, weakly connected operation

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